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TITLE: CONTROL SYSTEM HAVING  
SELF-DIAGNOSTIC FUNCTION CUSTOM  
GAS HEATER FOR COOLING AND HEATING

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INVENTOR-INFORMATION:

NAME	COUNTRY
NAM, DONG-YUL	N/A

ASSIGNEE-INFORMATION:

NAME	COUNTRY
SAMSUNG ELECTRONICS CO LTD	N/A

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ABSTRACT:

PURPOSE: To enable a control system custom gas heater for cooling and heating to satisfy various desires of consumers and to quickly clear up the causes of faults, by giving a self-diagnostic function which can raise the fire power of a custom heater to a set value by performing A/D conversion on the feedback current of a linear gas valve at a high speed to the control system.

CONSTITUTION: A control system is constituted of a

routine of a sequence  
which turns on the operation of a custom heater in a  
prescribed operation  
sequence, a pre-purge sequence, a pre-ignition sequence, an  
ignition detecting  
sequence, a weak ignition sequence, a heating (weak)  
operation sequence, and a  
heating (strong) operation sequence, a routine for  
accomplishing the system  
operation of a self-diagnostic function, etc. As the  
operation sequence  
advances, normal operation displays, abnormal state  
displays, reset displays,  
and buzzer drive and digit displays are made. When an  
external interruption is  
permitted, a clock interruption and the external  
interruption are made to be  
accomplished simultaneously. The external interruption is  
made to be  
accomplished in an external interruption routine which is  
made in the stage,  
etc., in which the timer interruption is made to be  
permitted.

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